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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,321	08/03/2006	Alain Joseph Jean Garnier	PRD2188USPCT	7212

27777 7590 01/25/2010  
PHILIP S. JOHNSON  
JOHNSON & JOHNSON  
ONE JOHNSON & JOHNSON PLAZA  
NEW BRUNSWICK, NJ 08933-7003

EXAMINER
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SULLIVAN, DANIELLE D

ART UNIT	PAPER NUMBER
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1616

NOTIFICATION DATE	DELIVERY MODE
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01/25/2010

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jnjuspatent@corus.jnj.com  
lhowd@its.jnj.com  
gsanche@its.jnj.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/588,321	<b>Applicant(s)</b> GARNIER, ALAIN JOSEPH JEAN	
	<b>Examiner</b> DANIELLE SULLIVAN	<b>Art Unit</b> 1616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 02 October 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) 3-8, 11 and 12 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 8, 10, 13 and 14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                        | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Status of Claims***

Claims 3-8, 11 and 12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected Groups II-VIII, there being no allowable generic or linking claim. Claims 1, 2, 9, 10, 13 and 14 are pending examination. Applicant timely traversed the restriction (election) requirement in the reply filed on 1/09/2009.

### ***Response to Arguments***

Applicant's arguments filed 10/02/2009, with respect to the rejection(s) of claim(s) 1, 2, 9, 10, 13 and 14 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Antoni-Zimmermann et al.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 14 recite the limitation "in respective proportions such as to provide a synergistic antifungal effect" without specifying amounts. The metes and bounds of the claim cannot be deciphered.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 2, 9, 10, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Antoni-Zimmermann et al. (US 2003/0199490).

**Applicant's Invention**

Applicant claims a composition comprising DDAC (didecyl dimethyl ammonium chloride) and imazalil in a carrier. Claim 9 specifies the ratio of DDAC to imazalil is 1:100 to 10:1. Claim 10 specifies the amount of DDAC is in a range from 10 to 1 mg/l and the range of imazalil is in a range from 10 to 1 mg/l. Applicant claims a process of preparing the composition by mixing the ingredients with the carrier.

**Determination of the scope and the content of the prior art**

**(MPEP 2141.01)**

Antoni-Zimmermann et al. teach synergistic biocidal compositions comprising 2-alkyl isothiazoline-3-one and pyrithione as a biocidal active ingredient. The active ingredients behave synergistically and are ideally suitable for controlling bacteria, fungus and algae (abstract). Additionally, the biocide composition may comprise one or more other biocidal active ingredients selected as a function of the specific system to be preserved selected from imazalil and didecyl dimethyl ammonium chloride [0054, 0055 and 0075]. The concentration of pyrithione and 2-alkyl isothiazoline-3-one ranges from

0.1 to 99% based on the entire weight of the composition [0044]. The weight ratio of pyrrithione to 2-alkyl isothiazoline-3-one is from 1:1000 to 1000:1 [0046]. The total concentration of the biocide in the system which is susceptible to microbial attack to be preserved range from 0.01 to 10% of the biocide composition [0096].

**Ascertainment of the difference between the prior art and the claims  
(MPEP 2141.02)**

Antoni-Zimmermann et al. do not envisage a particular composition comprising imazalil and DDAC. However, the combination of one or more other biocidal active ingredients selected from imazalil and DDAC are taught as additional biocidal active ingredients. Since the claim uses "comprising" language, the inclusion of other ingredients is allowed. Antoni-Zimmermann et al. do not teach that the specific ratio of DDAC to imazalil is 1:100 to 10:1 or that the amount of DDAC is in a range from 10 to 1 mg/l and the range of imazalil is in a range from 10 to 1 mg/l. However, Antoni-Zimmermann et al. teach adjusting the ratios of the different biocidal active ingredients in the range of 1:1000 to 1000:1, hence it would have been routine optimization to optimize the concentration of the active ingredients by adjusting the ratio of imazalil to DDAC from 1:100 to 10:1. Furthermore, in view of In re Aller, Lacey, and Hall, 105 USPQ 233 (C.C.P.A. 1955), "change in concentration is not patentable modification, however, such changes may impart patentability to process if ranges claimed produce new and unexpected results". Since Antoni-Zimmerman et al. disclose the invention as being used to prevent fungal attack and only lack in specifying the amounts obtained present claims are prima facie obvious.

**Finding of prima facie obviousness**

**Rationale and Motivation (MPEP 2142-2143)**

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the teachings of Antoni-Zimmermann et al. and use a composition comprising imazalil and DDAC. One would have been motivated to combine imazalil and DDAC because Antoni-Zimmermann et al. teach the combination of one or more other biocidal active ingredients selected from imazalil and DDAC. One would have been motivated to manipulate ranges during routine experimentation to discover the optimum or workable range since the prior art provides the general range. Therefore, one would have been motivated to use the appropriate amount of imazalil and DDAC to achieve the specific ratio of DDAC to imazalil, 1:100 to 10:1.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Danielle Sullivan whose telephone number is (571) 270-3285. The examiner can normally be reached on 7:30 AM - 5:00 PM Mon-Thur EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on (571) 272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Danielle Sullivan  
Patent Examiner  
Art Unit 1616

/Johann R. Richter/

Supervisory Patent Examiner, Art Unit 1616